

ABSTRACT

A variable gain voltage/current converter circuit of the present invention has an input section active element having an input terminal, an output terminal, and a ground terminal for performing a voltage/current conversion, a potential control circuit for controlling a conversion gain of the input section active element based on a potential at the output terminal of the input section active element, an output section voltage/current converter circuit for generating a current corresponding to a voltage signal generated from the potential control circuit, and a current compensation circuit connected to the output terminal of the input section active element for generating a DC current in accordance with the amount of DC current which flows from the output terminal of the input section active element to the input section active element. The current compensation circuit compensates for a change in a DC current of the input section active element, which occurs when the conversion gain is adjusted. This minimizes fluctuations in operating points of other circuit elements.